DataLink 1.0

RFC page	http://wiki.ivoa.net/twiki/bin/view/IVOA/Datalink1RFC
Document page	http://www.ivoa.net/documents/DataLink/20150414/index.html
Start RFC	4-Jul-14
End RFC	1-Sep-14
Start TCG Review	1-Oct-14
End TCG Review	1-Nov-14
Start Exec Review	8-Jun-15
REC date	17-Jun-15

	YES	Yes, but	NO	Comments to be brought to the Exec
WGs				
Apps	1			Various comments responded to on the REC page.
DAL	1			
DM	1			Various comments taken into account in new version or responded to on the RFC page.
GWS	1			
Registry	1			Various comments taken into account in new version or responded to on the RFC page.
Semantics	1			Various comments taken into account in new version or responded to on the RFC page.
TCG		1		There is no service validator but a client tool exists that consumes responses from at least one service.
IGs				
Data CP				
KDD				
Standards and Processes				
Theory	1			
Time Domain				

	YES	Yes, but	NO
TOTAL	7	1	0

Reference Implementation 1	The CADC implementation of DataLink provides one or more downloads per input ID an provides links to prototype AccessData services for most science data. Example invocation: http://www.cadc-ccda.hia-iha.nrc-cnrc.gc.ca/caom2ops/datalink?ID=caom:IRIS/f212h000/IRAS-25um For SIA and TAP requests, the service descriptor tells the caller how to invoke the associated DataLink service itself. Example invocation of SIAv2 query: http://www.cadc-ccda.hia-iha.nrc-cnrc.gc.ca/sia/v2query?MAXREC=1&POS=Circle+180+5+0.2
Reference Implementation 2	GAVO's server package DaCHS contains an implementation of Datalink both in auxiliary resources for SSAP and SIAP and standalone. At the Heidelberg data center, several services use these facilities, among them ivo://org.gavo.dc/califa/q2/s, ivo://org.gavo.dc/feros/q/ssa, ivo://org.gavo.dc/mlqso/q/s, and ivo://org.gavo.dc/theossa/q/ssa. There are also pointers to datalink documents in the obscore table (try something like select * from ivoa.obscore where access_format like '%datalink%' on ivo://org.gavo.dc/tap).
Reference Implementation 3	Recent versions of SPLAT, a spectral analysis tool, uses datalink to discover how to do server-side manipulations of spectra it retrieves. You can try this over SSAP on, e.g., the TheoSSA, califa ssa, and Flash/Heros services. Or also get the access information to download a spectrum from a Datalink table, which can be tested on the ObsCore results from the CADC service.
Implementation Validator	In development but not yet completed.

Recommendation to EXEC	DataLink 1.0 has gone through the REC, and has received unanimous approval from the TCG members. There are two reference implementations available from the server side, as well as one client application that uses standard. The TCG recommends the IVOA Exec to approve DataLink 1.0 as an IVOA Recommendation.